Product Data Sheet

Product Name: KHK-IN-3
Cat. No.: GC69331

Chemical Properties

Cas. No.	2568608-48-8		
Formula	$C_{18}H_{22}F_3N_7O$	M.Wt	409.41
Solubility	DMSO : 100 mg/mL (244.25 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	KHK-IN-3		

Background

KHK-IN-3 (Example 1) is a **ketohexokinase** (**KHK**) inhibitor. KHK-IN-3 can be used in the study of kidney disease, nonalcoholic steatohepatitis (NASH), diabetes and heart failure. KHK is a rate-limiting enzyme and fructokinase involved in fructose metabolism. KHK catalyzes the phosphorylation of fructose to fructose-1-phosphate (FIP) at the expense of ATP. The lack of feedback inhibition of fructose metabolism triggers the accumulation of downstream intermediates such as lipogenesis, gluconeogenesis, and oxidative phosphorylation[1].

[1]. Coates David Andrew, et al. Preparation of the disubstituted pyrazole compound and their medical applications. United States, US20200392118 A1. 2020-12-17.

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